

CLAIMS

- 1 1. (Currently Amended) A composition consisting essentially of:
2 a polyolefin prepared by the metathesis of an olefin monomer using a ruthenium or
3 osmium ~~carbene~~ carbene catalyst; and
4 one or more toughness and/or hardness modulators, the one or more toughness and/or
5 hardness modulators comprising a silicone.
- 1 2. (Original) The composition of claim 1, wherein the polyolefin is poly-DCPD.
- 1 3. (Cancelled)
- 1 4. (Previously presented) The composition of claim 1, wherein the silicone is polysiloxane.
- 1 5. (Currently Amended) The composition of claim ~~4~~ 1, wherein the polysiloxane is a
2 poly(dimethylsiloxane) or a poly(diphenylsiloxane).
- 1 6. (Original) The composition of claim 2 wherein the one or more toughness
2 modulators is present in an amount between about 0.1% and about 20% by weight of the olefin
3 monomer.
- 1 7. (Original) The composition of claim 6 wherein the one or more toughness
2 modulators is present in an amount between about 0.5% and about 10% by weight of the olefin
3 monomer.
- 1 8. (Original) The composition of claim 7 wherein the one or more toughness
2 modulators is present in an amount between about 1% and about 5% by weight of the olefin
3 monomer.

1 Claims 9-17 (Cancelled).

1 18. (Currently Amended) A golf club head consisting essentially of:

2 a polyolefin prepared by the metathesis of an olefin monomer using a ruthenium or
3 osmium carbene catalyst; and

4 one or more toughness and/or hardness modulators comprising a silicone.

1 19. (Cancelled)

1 20. (Previously presented) The golf club head of claim 18 wherein the polyolefin is poly-
2 DCPD.

1 Claims 21-24 (Cancelled).

1 25. (Previously presented) A process for preparing a composition having hardness or
2 toughness properties consisting essentially of contacting a cyclic olefin with a ruthenium or
3 osmium carbene catalyst and one or more hardness and/or toughness modulators, the one or
4 more toughness and/or hardness modulators comprising a silicone.

1 Claims 26-27 (Cancelled).

1 28. (Previously presented) The process of claim 25 wherein the silicone is a polysiloxane.

1 29. (Original) The process of claim 28 wherein the polysiloxane is a poly(dimethylsiloxane)
2 or a poly(diphenylsiloxane).

1 30. (Currently amended) The ~~method~~ process of claim ~~26~~ 25 wherein the one or more
2 toughness modulators is present in an amount between about 0.1% and about 20% by weight of

3 the cyclic olefin monomer.

1 31. (Currently amended) The ~~method~~ process of claim 30 wherein the one or more toughness
2 modulators is present in an amount between about 0.5% and about 10% by weight of the cyclic
3 olefin monomer.

1 32. (Currently amended) The ~~method~~ process of claim 31 wherein the one or more toughness
2 modulators is present in an amount between about 1% and about 5% by weight of the cyclic
3 olefin monomer.

1 33. (Cancelled)

1 34. (Previously presented) A composition comprising:
2 a polyolefin prepared by the metathesis of an olefin monomer using a ruthenium or
3 osmium carbene catalyst; and one or more toughness modulators; wherein the olefin monomer is
4 a dicyclopentadiene and the one or more toughness modulators is poly(dimethylsiloxane) or
5 poly(diphenylsiloxane).

1 35. (Original) The process of claim 25 wherein the cyclic olefin is dicyclopentadiene.

1 36. (Original) The composition of claim 1 wherein the olefin monomer is dicyclopentadiene.

1 37. (Original) A composition comprising:
2 a polyolefin prepared by the metathesis of an olefin monomer using a ruthenium or
3 osmium carbene catalyst; and
4 one or more toughness and/or hardness modulators, wherein the one or more toughness
5 modulators comprises a silicone.

1 38. (Original) The composition of claim 37, wherein the silicone is a polysiloxane.

1 39. (Original) The composition of claim 38, wherein the polysiloxane is a
2 poly(dimethylsiloxane) or a poly(diphenylsiloxane).

1 40. (Currently Amended) An article of manufacture comprising:

2 a polyolefin prepared by the metathesis of an olefin monomer using a ruthenium or
3 osmium carbene catalyst; and

4 one or more toughness and/or hardness modulators comprising a silicone,

5 wherein the polyolefin is poly-DCPD, and wherein the article is a molded part selected
6 from the group consisting of a golf club head and a golf club shaft.

1 41. (Original) A process for preparing a composition having hardness or toughness
2 properties comprising contacting a cyclic olefin with a ruthenium or osmium carbene catalyst
3 and one or more hardness and/or toughness modulators, wherein the one or more toughness
4 modulators comprises a silicone.

1 42. (Original) The process of claim 41, wherein the silicone is a polysiloxane.

1 43. (Original) The process of claim 42, wherein the polysiloxane is a poly(dimethylsiloxane)
2 or a poly(diphenylsiloxane).

1 44. (Original) A golf club shaft consisting essentially of:

2 a polyolefin prepared by the metathesis of an olefin monomer using a ruthenium or
3 osmium carbene catalyst; and

4 one or more toughness and/or hardness modulators.